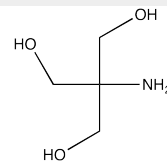


Tris-(hydroxymethyl)-aminomethane, secondary standard for volumetric titrations, Titrasure®

Identification

$C_4H_{11}NO_3$
 $M = 121,14 \text{ g/mol}$
CAS [77-86-1]
EC number: 201-064-4
Taric code: 2922 19 85


Synonyms

2-Amino-2-(hydroxymethyl)-1,3-propanediol, Tromethamine, THAM, TRIS buffer

Specifications

assay (on dried sample).....99,8 - 100,1 %
absorbance..... passes test
insoluble in water..... max. 0,005 %
uncertainty 0,05%
Drying: Dry at room temperature for 24h in a vacuum desiccator over anhydrous magnesium perchlorate or equivalent

heavy metals (as Pb)..... max. 0,0005 %
iron (Fe)..... max. 0,0005 %
water (K.F.)..... max. 2 %

This standard solution is traceable to Standard Reference Material from NIST.

Physical data

- Spec. Density: $1,353 \text{ g/cm}^3$
- Bulk density: $\sim 840 \text{ kg/m}^3$
- Solub. in water: (20 °C): 800 g/l
- Melting point: 172 - 173 °C
- Boiling point: (13,3 hPa) 219 - 220 °C
- pH(6 g/l H_2O , 20 °C) 10,2 - 10,6

Safety - GHS

Signal Word: Warning

Hazard Statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation.


Precautionary Statements:

P280: Wear protective gloves / protective clothing / eye protection / face protection.
P264: Wash thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see on this label).
P332+P313: If skin irritation occurs: Get medical advice / attention.
P337+P313: If eye irritation persists: Get medical advice / attention.

Transport/storage

- 10°C - 30°C